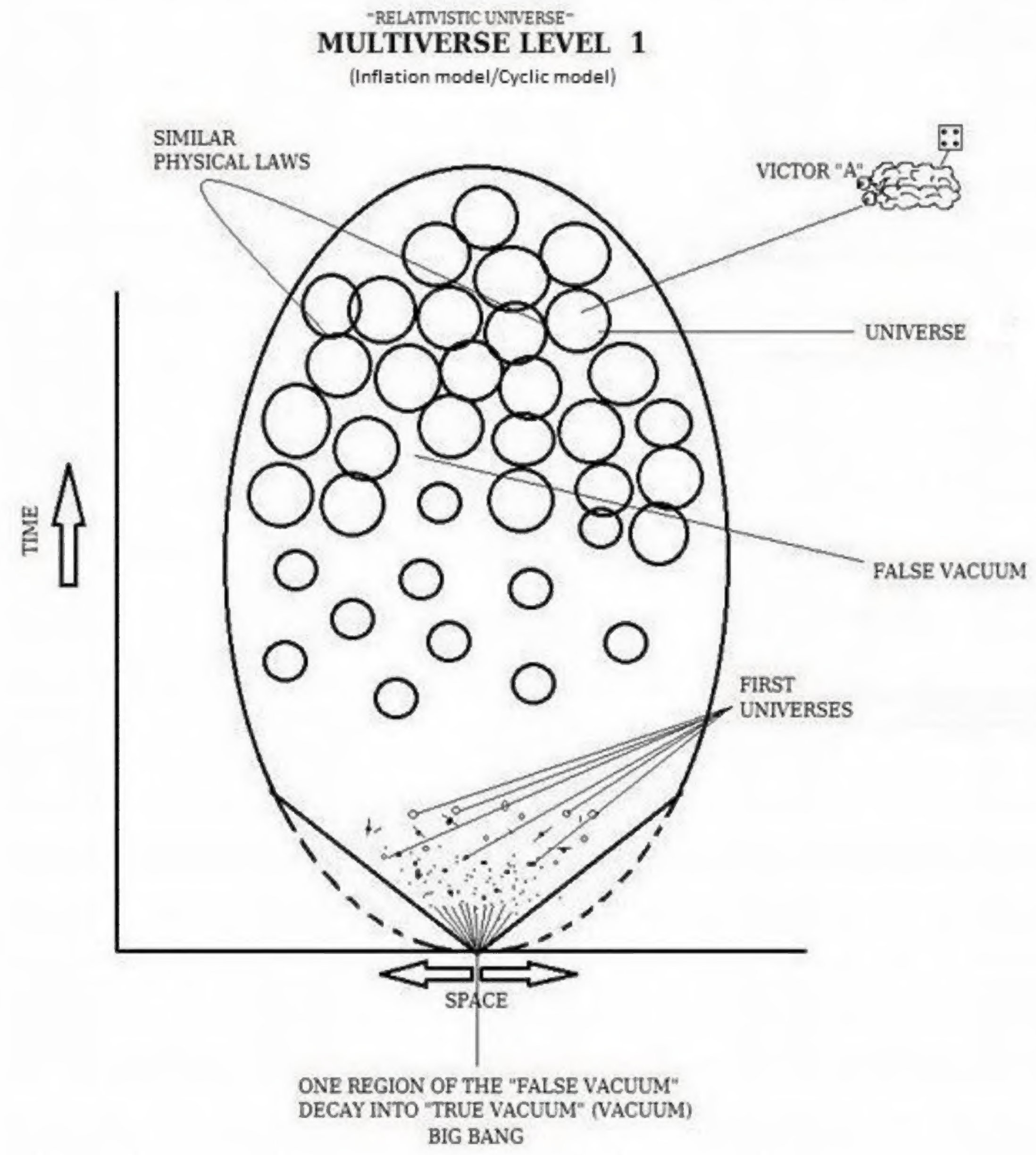
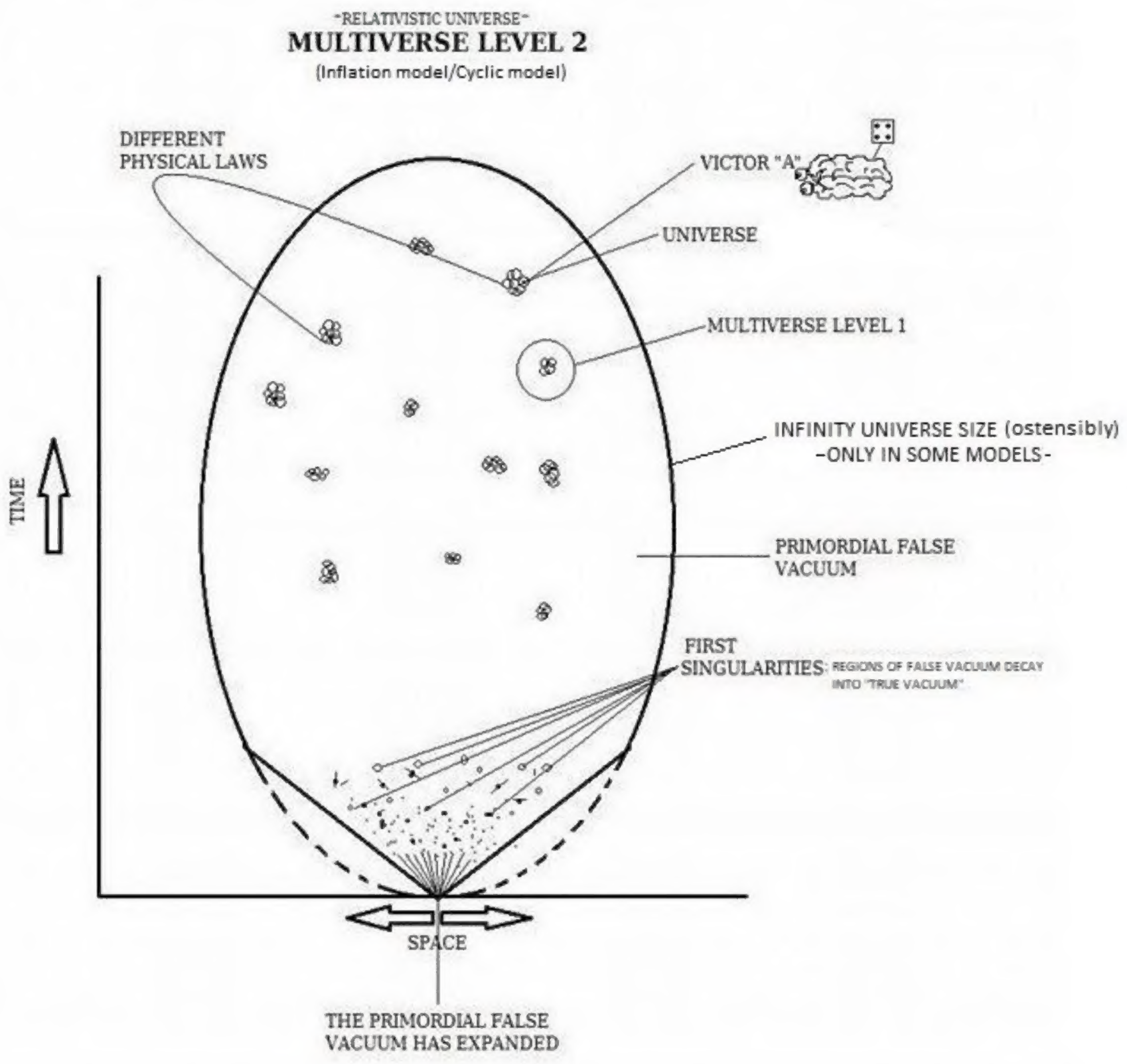
QUANTUM COSMOLOGY

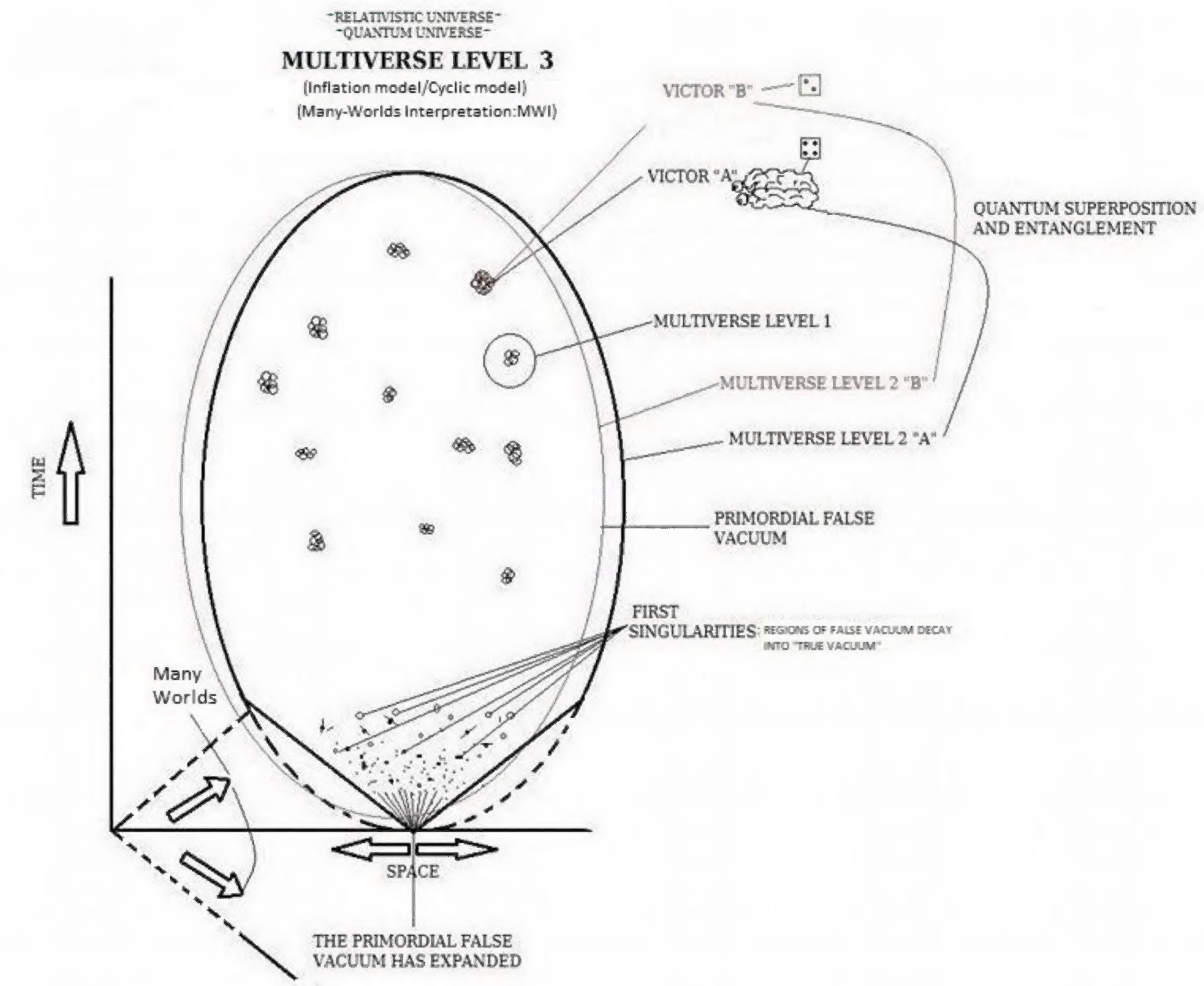
Complementarity Principle

Epistemological vision



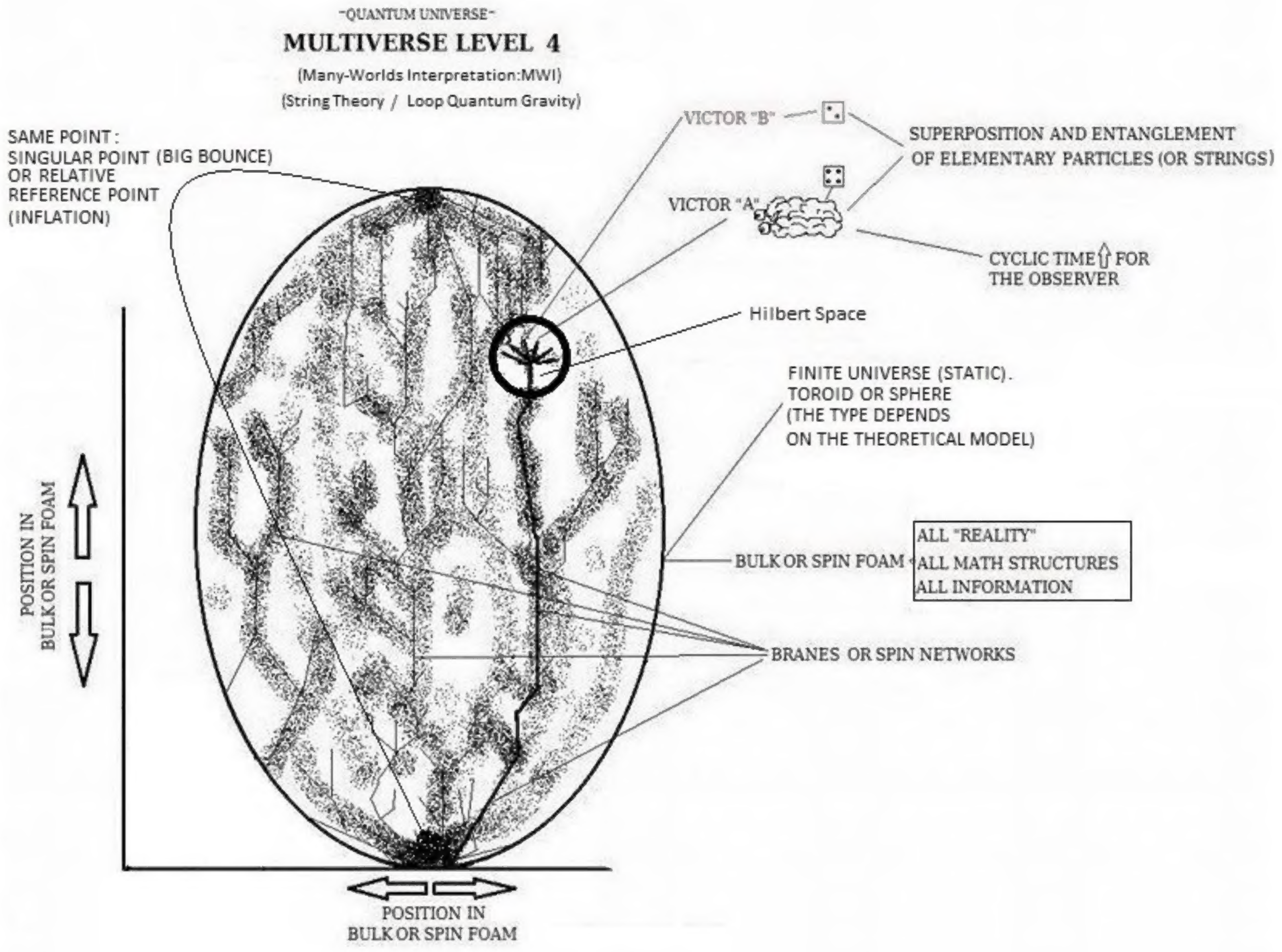


-RELATIVISTIC UNIVERSE-
MULTIVERSE LEVEL 2
(Inflation model/Cyclic model)
DIFFERENT PHYSICAL LAWS
VICTOR "A"
UNIVERSE
MULTIVERSE LEVEL 1
INFINITY UNIVERSE SIZE (ostensibly) -ONLY IN SOME MODELS-
TIME
PRIMORDIAL FALSE VACUUM
FIRST SINGULARITIES: REGIONS OF FALSE VACUUM DECAY INTO "TRUE VACUUM"
SPACE
THE PRIMORDIAL FALSE VACUUM HAS EXPANDED



-RELATIVISTIC UNIVERSE-
-QUANTUM UNIVERSE-
MULTIVERSE LEVEL 3
(Inflation model/Cyclic model)
(Many-Worlds Interpretation:MWI)
VICTOR "B"
VICTOR "A"
QUANTUM SUPERPOSITION AND ENTANGLEMENT
MULTIVERSE LEVEL 1
MULTIVERSE LEVEL 2 "B"
MULTIVERSE LEVEL 2 "A"
TIME
PRIMORDIAL FALSE VACUUM
FIRST SINGULARITIES: REGIONS OF FALSE VACUUM DECAY INTO "TRUE VACUUM"
Many Worlds
SPACE
THE PRIMORDIAL FALSE VACUUM HAS EXPANDED

Ontological vision



-QUANTUM UNIVERSE-
MULTIVERSE LEVEL 4
(Many-Worlds Interpretation:MWI)
(String Theory / Loop Quantum Gravity)
SAME POINT : SINGULAR POINT (BIG BOUNCE) OR RELATIVE REFERENCE POINT (INFLATION)
VICTOR "B"
VICTOR "A"
SUPERPOSITION AND ENTANGLEMENT OF ELEMENTARY PARTICLES (OR STRINGS)
CYCLIC TIME ⇧ FOR THE OBSERVER
Hilbert Space
FINITE UNIVERSE (STATIC). TOROID OR SPHERE (THE TYPE DEPENDS ON THE THEORETICAL MODEL)
POSITION IN BULK OR SPIN FOAM
BULK OR SPIN FOAM
ALL "REALITY"
ALL MATH STRUCTURES
ALL INFORMATION
BRANES OR SPIN NETWORKS
POSITION IN BULK OR SPIN FOAM

Complementarity Principle

Firmado digitalmente porDaniel L.Laz
DN: cn=Daniel L.Laz gn=Daniel L.Laz c=Espa¶a l=ES o=Thesis Dev. DLL ou=Thesis Dep.
Motivo:I am the author of this document
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